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CLAIMS

1. A method of determining frequency planning measurement data in a cellular communications system (1), comprising:  
5 allocating neighbour lists (208, 210, 212) to provide measurement data for frequency planning;  
wherein the neighbour lists (208, 210, 212) are allocated on a per call basis.
2. A method according to claim 1, wherein different neighbour lists (208, 210,  
10 212) are allocated by the same base station (28) to different mobile stations (44, 46, 48) for respective calls (204) that overlap in time.
3. A method according to claim 1 or 2, wherein a different neighbour list (208, 210, 212) is allocated for at least substantially each call (204) conducted by a  
15 base station (28) of the cellular communication system (1), compared to respective directly preceding calls.
4. A method according to claim 1 or 2, wherein a different neighbour list (208, 210, 212) is allocated for at least substantially each of a predetermined  
20 number of calls conducted by a base station (28) of the cellular communications system (1), compared to the predetermined number of directly preceding calls.
5. A method according to any of claims 1 to 4, wherein the neighbour lists (208, 210, 212) are allocated on a per call basis such as to cover, over a plurality of

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calls (204), at least substantially all test frequencies (206) for the cell (16) served by the base station (28).

6. A method according to claim 5, further comprising repeating, on a cyclical  
5 basis comprising repeated pluralities of calls, the neighbour lists (208, 210, 212) allocated on a per call basis covering at least substantially all the test frequencies (206).
7. A method of frequency planning in a cellular communications system,  
10 comprising using frequency planning measurement data acquired by a process comprising the method according to any of claims 1 to 6.
8. A storage medium storing processor-implementable instructions for  
controlling one or more processors to carry out the method of any of claims 1  
15 to 7.
9. Apparatus for determining frequency planning measurement data in a  
cellular communications system (1), comprising:  
means for allocating neighbour lists to provide measurement data for  
20 frequency planning;  
wherein the means for allocating neighbour lists are adapted to allocate  
the neighbour lists (208, 210, 212) on a per call basis.
10. Apparatus according to claim 9, wherein the means for allocating  
25 neighbour lists are adapted to allocate different neighbour lists (208, 210, 212)

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from the same base station (28) to different mobile stations (44, 46, 48) for respective calls (204) that overlap in time.

11. Apparatus according to claim 9 or 10, wherein the means for allocating  
5 neighbour lists are adapted to allocate a different neighbour list (208, 210, 212) for at least substantially each call (204) conducted by a base station (28) of the cellular communication system (1), compared to respective directly preceding calls.
- 10 12. Apparatus according to claim 9 or 10, wherein the means for allocating neighbour lists are adapted to allocate a different neighbour list (208, 210, 212) for at least substantially each of a predetermined number of calls conducted by a base station (28) of the cellular communications system (1), compared to the predetermined number of directly preceding calls.
- 15 13. Apparatus according to any of claims 9 to 12, wherein the means for allocating neighbour lists are adapted to allocate the neighbour lists (208, 210, 212) on a per call basis such as to cover, over a plurality of calls (204), at least substantially all test frequencies (206) for the cell (16) served by the base station  
20 (28).
14. Apparatus according to claim 13, the means for allocating neighbour lists are adapted to repeat, on a cyclical basis comprising repeated pluralities of calls, the neighbour lists (208, 210, 212) allocated on a per call basis covering at least  
25 substantially all the test frequencies (206).

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15. Apparatus for frequency planning in a cellular communications system, comprising means adapted to use frequency planning measurement data acquired by apparatus comprising apparatus according to any of claims 9 to 14.
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16. A method of determining frequency planning measurement data in a cellular communications system substantially as hereinbefore described with reference to the accompanying drawings.
- 10 17. Apparatus for determining frequency planning measurement data in a cellular communications system substantially as hereinbefore described with reference to the accompanying drawings.